

Amendments to the Claims:

This listing of the claims will replace all prior versions, and listings, of the claims in the application:

1        1. (Currently Amended) A method for incrementally backing up data from a logically  
2 represented volume on disk media, accessible by a client through a network connection, the  
3 client comprising an enterprise database application, said method comprising:

4              identifying tracks of the logically represented volume that have changed since a  
5 last incremental backup operation by reading fresh data indications, (i) wherein each of the fresh  
6 data indications corresponds to a track of the logically represented volume and (ii) wherein a  
7 given fresh data indication is indicative of whether its corresponding track has been changed  
8 since a last incremental backup operation;

9              identifying files for incremental backup, the identified files comprising changed  
10 and unchanged blocks saved on a track deemed changed since a last incremental backup  
11 operation; and

12              incrementally backing up the identified files from the disk media to sequential  
13 storage media through a high speed connection.

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15        2. (Original) The method according to claim 1, wherein the identified files are backed  
16 up in their entirety.

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18        3. (Original) The method according to claim 2, wherein the acts of identifying tracks,  
19 identifying files, and backing up the identified files are performed by a data manager of an  
20 enterprise storage platform.

1        4. (Original) The method according to claim 2, wherein said fresh data indications  
2 comprise flag bits, set to zero or to one, by hardware when a given track is backed up or updated,  
3 respectively.

4        5. (Original) The method according to claim 4, wherein said fresh data indications  
5 comprise change marks.

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7        6. (Currently Amended) A system for incrementally backing up data from a logically  
8 represented volume on disk media, accessible by a client through a network connection, the  
9 client comprising an enterprise database application, said system comprising:

10              a track identifier to identify tracks of the logically represented volume that have  
11 changed since a last incremental backup operation by reading fresh data indications, (i) wherein  
12 each of the fresh data indications corresponds to a track of the logically represented volume and  
13 (ii) wherein a given fresh data indication is indicative of whether its corresponding track has  
14 been changed since a last incremental backup operation;

15              a file identifier to identify files for incremental backup, the identified files  
16 comprising changed and unchanged blocks saved on a track deemed changed since a last  
17 incremental backup operation; and

18              a backup mechanism to incrementally back up the identified files from the disk  
19 media to sequential storage media through a high speed connection.

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21        7. (Original) The system according to claim 6, wherein the track identifier, the file  
22 identifier, and the backup mechanism comprise executing portions of encoded computer-  
23 readable media of a data manager of an enterprise storage platform.

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25        8. (Original) The method according to claim 6, wherein said fresh data indications  
26 comprise flag bits, set to zero or to one, by hardware when a given track is backed up or updated,  
27 respectively.

28        9. (Original) The method according to claim 8, wherein said fresh data indications  
29 comprise change marks.

1        10. (Original) A machine-readable media for incrementally backing up data from a  
2 logically represented volume on disk media, accessible by a client through a network connection,  
3 the client comprising an enterprise database application, the computer-readable media being  
4 encoded so that, when the machine-readable media is read by a computer, the machine-readable  
5 media causes:

6              identifying tracks of the logically represented volume that have changed since a  
7 last incremental backup operation by reading fresh data indications, (i) wherein each of the fresh  
8 data indications corresponds to a track of the logically represented volume and (ii) wherein a  
9 given fresh data indication is indicative of whether its corresponding track has been changed  
10 since a last incremental backup operation;

11              identifying files for incremental backup, the identified files comprising blocks  
12 saved on a track deemed changed since a last incremental backup operation; and

13              backing up the identified files from the disk media to sequential storage media  
14 through a high speed connection.

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16        11. (Original) The machine-readable media according to claim 10, wherein the  
17 identifying tracks, the identifying files, and the backing up comprise executing portions of  
18 encoded computer-readable media of a data manager of an enterprise storage platform.

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20        12. (Original) The machine-readable media according to claim 10, wherein said fresh  
21 data indications comprise flag bits, set to zero or to one, by hardware when a given track is  
22 backed up or updated, respectively.

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24        13. (Original) The machine-readable media according to claim 12, wherein said fresh  
25 data indications comprise change marks.